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Transfer box with crown teeth

Abstract

A transfer box with a housing, an input shaft, a first output shaft extending coaxially relative to said input shaft, and a second output shaft extending parallel to said two shafts, as well as with a differential gear assembly arranged between said shafts, wherein the input shaft carries a cross member with a plurality of radial bearing arms for the differential gears, wherein a first side gear is connected in a rotationally fast way to the first output shaft and wherein a second side gear is rotatably supported on the input shaft and drives the second output shaft, wherein the differential gears are spur gears and the side gears crown gears and wherein the teeth of the differential gears engage the teeth of the side gears.

Figure 4